

Monthly Summary of EPA Monitoring Data with Limits



Disclaimer - Monitoring data contained in this document is made available as required by Section 66(6) of the Protection of the Environment Operations Act 1997 and in accordance with the written requirements issued by the NSW Environment Protection Authority. To the best of Kimbriki Environmental Enterprises' knowledge, the data in this table is correct, except where specifically noted. The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises. For more details on publication of pollution monitoring data please refer to the NSW EPA Website, <http://www.epa.nsw.gov.au/index.htm>

Monitoring Period	Dec-17						
Date Published	16 January 2018						
EPA Licence No.	13091						
EPA Licence Hyperlink	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 2)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 3)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 21)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Max. value	100 percentile limit	Exceed-ance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5	<5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.26	0.26	1	no
pH	pH	Daily during any discharge	1	8.20	8.20	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	14	14	50	no
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge						

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 22)		Enclosed Ground Level Flare in the North-Eastern corner of the Premises. Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 22)					
Parameter	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Max. value	Lower Limit (Note 2)	Exceed-ance (yes/no)
Residence Time	seconds	Continuous	Continuous	0.9	1.1	0.6	No
Temperature	°C (Note 1)	Continuous	Continuous	792.1	817.1	760	No
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified						

Monthly Summary of EPA
Monitoring Data continued.



Monthly Summary of EPA Monitoring Data - No Limit

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Date Published	16 January 2018						
EPA Licence No.	13091						
EPA Licence Hyperlink	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i>						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Mean value	Median value	Max. value
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 2)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i>						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 3)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)</i>						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 21)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)</i>						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Mean value	Median value	Max. value
Conductivity	µS/cm (Note 1)	Daily during any discharge	1	698	698	698	698
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 22)		<i>Enclosed Ground Level Flare in the North-Eastern corner of the Premises.</i>					
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Mean value	Median value	Max. value
Volumetric flowrate	m ³ /h (Note 1)	Continuous	Continuous	0 (Note 2)	327	384	418
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero value due to: Flare was shut down for 1.5 hours on 4th December 2017 so that the flow meter could be examined and cleaned. Flare was shut down for 15.5 hours on 8th, 16th and 20th December 2017 due to power supply outage. Flare was shut down for 1.0 hour on 13th December 2017 for annual calibration of the gas analyser.						

Monthly Summary of EPA
Monitoring Data continued.



Quarterly Summary of EPA Monitoring Data - No Limits

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Monitoring Period	September 2017 - December 2017. Surface water sampled 18 December 2017. Groundwater sampled 1 December 2017.			
Date Published	16 January 2018			
EPA Licence No.	13091			
EPA Licence Hyperlink	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30667&SYSUID=1&LICID=13091			
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED			
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084			
Monitoring Location (EPA Point 2)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i>			
Explanatory Notes	No surface water available hence no flow at this monitoring point during the quarter due to dry weather			
Monitoring Location (EPA Point 1/11)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1/11)</i>			
Explanatory Notes	No surface water available hence no flow at this monitoring point during the month due to dry weather			
Monitoring Location (EPA Point 9)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 9)</i>			
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	670
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	240
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.11
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	13
Redox potential	mV (Note 4)	Quarterly	1	230
Suspended Solids	mg/L	Quarterly	1	2.2
Total dissolved solids	mg/L (Note 2)	Quarterly	1	300
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.3

Monthly Summary of EPA
Monitoring Data continued.

Explanatory Notes	(Note 1) $\mu\text{S}/\text{cm}$ (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			
Monitoring Location (EPA Point 10) Leachate Dam		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 10)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Conductivity	$\mu\text{S}/\text{cm}$ (Note 1)	Quarterly	1	6900
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	5.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	97
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	440
pH	pH	Quarterly	1	8
Potassium	mg/L (Note 2)	Quarterly	1	200
Redox potential	mV (Note 4)	Quarterly	1	200
Suspended Solids	mg/L	Quarterly	1	29
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2100
Total organic carbon	mg/L (Note 2)	Quarterly	1	150
Explanatory Notes	(Note 1) $\mu\text{S}/\text{cm}$ (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			
Monitoring Location (EPA Point 6)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 6)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Conductivity	$\mu\text{S}/\text{cm}$ (Note 1)	Quarterly	1	430
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.6
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1300
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.03
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	9.6
Redox potential	mV (Note 4)	Quarterly	1	210
Suspended Solids	mg/L	Quarterly	1	14
Total dissolved solids	mg/L (Note 2)	Quarterly	1	240
Total organic carbon	mg/L (Note 2)	Quarterly	1	10
Explanatory Notes	(Note 1) $\mu\text{S}/\text{cm}$ (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 7)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 7)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	490
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.6
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	< 0.01
pH	pH	Quarterly	1	8.7
Potassium	mg/L (Note 2)	Quarterly	1	9.5
Redox potential	mV (Note 4)	Quarterly	1	180
Suspended Solids	mg/L	Quarterly	1	14
Total dissolved solids	mg/L (Note 2)	Quarterly	1	260
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.6
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			
Monitoring Location (EPA Point 8)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 8)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	500
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.6
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.04
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 2)	Quarterly	1	9.1
Redox potential	mV (Note 4)	Quarterly	1	270
Suspended Solids	mg/L	Quarterly	1	5.1
Total dissolved solids	mg/L (Note 2)	Quarterly	1	260
Total organic carbon	mg/L (Note 2)	Quarterly	1	8.1
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 3/12) <i>Holding pond - no discharge from site.</i>		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3/12). Please refer to Note 5 also.</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	740
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.6
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	330
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.22
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 2)	Quarterly	1	30
Redox potential	mV (Note 4)	Quarterly	1	220
Suspended Solids	mg/L	Quarterly	1	20
Total dissolved solids	mg/L (Note 2)	Quarterly	1	380
Biochemical oxygen	mg/L (Note 2)	Quarterly	1	< 5
Total organic carbon	mg/L (Note 2)	Quarterly	1	23
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts) (Note 5) This monitoring point is a holding pond with no discharge from site			
Monitoring Location (EPA Point 5)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 5)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	390
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.6
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	35
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	< 0.01
pH	pH	Quarterly	1	5.6
Potassium	mg/L (Note 2)	Quarterly	1	0.9
Redox potential	mV (Note 4)	Quarterly	1	310
Suspended Solids	mg/L	Quarterly	1	5.2
Total dissolved solids	mg/L (Note 2)	Quarterly	1	180
Total organic carbon	mg/L (Note 2)	Quarterly	1	< 5
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 13)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 13)</i>
Explanatory Notes	No surface water available hence no flow at this monitoring point during the month due to dry weather
Monitoring Location (EPA Point 14)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 14)</i>
Explanatory Notes	No surface water available hence no flow at this monitoring point during the month due to dry weather
Monitoring Location (EPA Point 15)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 15)</i>
Explanatory Notes	No surface water available hence no flow at this monitoring point during the month due to dry weather
Explanatory Notes	(Note 1) $\mu\text{S}/\text{cm}$ (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 16)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 16)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Ammonia (as N)	mg/L (Note 1)	Quarterly	1	0.05
Chloride	mg/L (Note 1)	Quarterly	1	83
pH	pH	Quarterly	1	5.8
Sulphate (as SO ₄)	mg/L (Note 1)	Quarterly	1	< 5
Total Dissolved Solids	mg/L (Note 1)	Quarterly	1	170
Total Organic Carbon	mg/L (Note 1)	Quarterly	1	< 5
Calcium	mg/L (Note 1)	Quarterly	1	3.1
Magnesium	mg/L (Note 1)	Quarterly	1	9
Potassium	mg/L (Note 1)	Quarterly	1	1.1
Sodium	mg/L (Note 1)	Quarterly	1	41
Total Alkalinity (as CaCO ₃)	mg/L (Note 1)	Quarterly	1	28
Standing Water Level	m	Quarterly	1	105.625
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
Monitoring Location (EPA Point 17)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 17)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Ammonia (as N)	mg/L (Note 1)	Quarterly	1	0.09
Chloride	mg/L (Note 1)	Quarterly	1	76
pH	pH	Quarterly	1	5.8
Sulphate (as SO ₄)	mg/L (Note 1)	Quarterly	1	43
Total Dissolved Solids	mg/L (Note 1)	Quarterly	1	210
Total Organic Carbon	mg/L (Note 1)	Quarterly	1	< 5
Calcium	mg/L (Note 1)	Quarterly	1	3.1
Magnesium	mg/L (Note 1)	Quarterly	1	9.5
Potassium	mg/L (Note 1)	Quarterly	1	1.7
Sodium	mg/L (Note 1)	Quarterly	1	49
Total Alkalinity (as CaCO ₃)	mg/L (Note 1)	Quarterly	1	26
Standing Water Level	m	Quarterly	1	62.296
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 18)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 18)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Ammonia (as N)	mg/L (Note 1)	Quarterly	1	56
Chloride	mg/L (Note 1)	Quarterly	1	260
pH	pH	Quarterly	1	6.7
Sulphate (as SO ₄)	mg/L (Note 1)	Quarterly	1	45
Total Dissolved Solids	mg/L (Note 1)	Quarterly	1	730
Total Organic Carbon	mg/L (Note 1)	Quarterly	1	27
Calcium	mg/L (Note 1)	Quarterly	1	13
Magnesium	mg/L (Note 1)	Quarterly	1	35
Potassium	mg/L (Note 1)	Quarterly	1	42
Sodium	mg/L (Note 1)	Quarterly	1	180
Total Alkalinity (as CaCO ₃)	mg/L (Note 1)	Quarterly	1	380
Standing Water Level	m	Quarterly	1	81.425
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
Monitoring Location (EPA Point 19)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 19)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Ammonia (as N)	mg/L (Note 1)	Quarterly	1	55
Chloride	mg/L (Note 1)	Quarterly	1	260
pH	pH	Quarterly	1	6.6
Sulphate (as SO ₄)	mg/L (Note 1)	Quarterly	1	< 5
Total Dissolved Solids	mg/L (Note 1)	Quarterly	1	850
Total Organic Carbon	mg/L (Note 1)	Quarterly	1	57
Calcium	mg/L (Note 1)	Quarterly	1	62
Magnesium	mg/L (Note 1)	Quarterly	1	31
Potassium	mg/L (Note 1)	Quarterly	1	64
Sodium	mg/L (Note 1)	Quarterly	1	170
Total Alkalinity (as CaCO ₃)	mg/L (Note 1)	Quarterly	1	560
Standing Water Level	m	Quarterly	1	61.025
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Monthly Summary of EPA
Monitoring Data continued.

Monitoring Location (EPA Point 20)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf,</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Ammonia (as N)	mg/L (Note 1)	Quarterly	1	0.02
Chloride	mg/L (Note 1)	Quarterly	1	29
pH	pH	Quarterly	1	6.3
Sulphate (as SO ₄)	mg/L (Note 1)	Quarterly	1	< 5
Total Dissolved Solids	mg/L (Note 1)	Quarterly	1	130
Total Organic Carbon	mg/L (Note 1)	Quarterly	1	18
Calcium	mg/L (Note 1)	Quarterly	1	2
Magnesium	mg/L (Note 1)	Quarterly	1	4.8
Potassium	mg/L (Note 1)	Quarterly	1	0.9
Sodium	mg/L (Note 1)	Quarterly	1	23
Total Alkalinity (as CaCO ₃)	mg/L (Note 1)	Quarterly	1	42
Standing Water Level	m	Quarterly	1	100.15
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
Monitoring Location (EPA Point 21)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)</i>		
Pollutant	Units of measure	Monitoring	No. of times	Value
Biochemical oxygen demand	mg/L (Note 1)	Quarterly	1	< 5
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			